

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S99	23143	(code or id or identifier ) near3 ((read near2 memory ) rom or eprom eeprom)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 14:46
S10 0	5291	(code or id or identifier ) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 14:48
S10 1	861	(code or id or identifier ) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on) and key near4 (code or id or identifier )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 14:49
S10 2	187	(code or id or identifier ) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on) and (produc\$3 comput\$3 calculat43 generat\$3 deriv\$3 ) near3 key near4 (code or id or identifier )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 14:51
S10 3	452	(code or id or identifier number) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on) and (produc\$3 comput\$3 calculat43 generat\$3 deriv\$3 ) near3 key near4 (code or id or identifier number )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 11:11
S10 4	335	(code or id or identifier number) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on) and (produc\$3 comput\$3 calculat43 generat\$3 deriv\$3 ) near3 key near4 (code or id or identifier number ) and (two first second plurality (at near least)) near2 (code or id or identifier number)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 14:53

## EAST Search History

S10 5	274	(code or id or identifier number) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on) and (produc\$3 comput\$3 calculat43 generat\$3 deriv\$3 ) near3 key near4 (code or id or identifier number ) and (two first second plurality (at near least)) near2 (code or id or identifier number) and (two first second plurality (at near least)) near2 key	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 15:18
S10 6	17	"6243468"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 16:20
S10 7	1	"20030056107" and (outside external access\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 16:56
S10 8	1	"20030056107" and ((program software) with control\$4 with processor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 17:26
S10 9	1	"5610980".pn. and (block portion part)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 17:26
S11 0	292	(code or id or identifier number) near3 ((read near2 memory ) rom or eprom eeprom) and (boot bootloader post power-on power\$4) and (produc\$3 comput\$3 calculat43 generat\$3 deriv\$3 ) near3 key near4 (code or id or identifier number ) and hash\$3 with (encrypt\$3 decrypt\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 10:05

## EAST Search History

S11 1	32540	bit with ((video near memory ) ram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 10:06
S11 2	6985178	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 )bit with pixel with (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) ((video near memory ) ram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 10:08
S11 3	568813	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 ) near3 bit with pixel with (before prior then next ) near3 (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) ((video near memory ) ram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 10:09
S11 4	0	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 ) near3 bit with pixel with (before prior then next ) near3 (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) with ((video near memory ) ram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 10:09
S11 5	0	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 ) near3 bit with pixel with (before prior then next ) near3 (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 10:09
S11 6	14	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 ) near3 bit with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 11:23
S11 7	34	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 ) near3 bit with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display video)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 11:24
S11 8	41	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 ) near3 bit with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display\$3 video)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 11:24

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S11 9	165	(modify\$4 modification chang\$3 alter\$3 obfuscat\$3 chang\$3 set\$4) near3 bit with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display\$3 video)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:06
S12 0	90	(least near significant near2 bit) with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display\$3 video)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 11:28
S12 1	7	S118 not S117	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 11:26
S12 2	2	(least near significant near2 bit) with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display\$3 video) same (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:15
S12 3	13	(least near significant near2 bit) with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display\$3 video) and (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 ) near3 ((video near memory ) ram display\$3 video)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 11:31
S12 4	124	S119 not S118	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:06
S12 5	116	S124 not S120	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:07

## EAST Search History

S12 6	2	(least near significant near2 bit) with pixel same (writ\$3 sav\$3 copy\$3 send\$3 stor\$3) near3 ((video near memory ) ram display\$3 video) with (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:15
S12 7	12	(least near significant near2 bit) with pixel same ((video near memory ) ram display\$3 video) with (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:26
S12 8	277	(least near significant near2 bit) with pixel and ((video near memory ) ram display\$3 video) with (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:26
S12 9	277	(least near significant near2 bit) with pixel and ((video near memory ) ram display\$3 video) with (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:27
S13 0	20	(least near significant near2 bit) with pixel and (screen display\$3 ) with (copy\$3 captur\$3 print\$3) with (secur\$3 protect\$3 copyright\$3 prevent\$3 inhibit\$3 )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:41
S13 1	27	"6298446"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 12:41

## EAST Search History

S13 2	46	("4405829"   "4827508"   "4933971"   "4977594"   "5050213"   "5303370"   "5410598"   "5509070"   "5533124"   "5636292"   "5638448"   "5638513"   "5689566"   "5710834"   "5715403"   "5721788"   "5745604"   "5748763"   "5748783"   "5758068"   "5765152"   "5768426"   "5801679"   "5809160"   "5822436"   "5832119"   "5835722"   "5838902"   "5841886"   "5841978"   "5850481"   "5862260"   "5870544"   "5872915"   "5881287"   "5892900"   "5905505"   "5982931"   "5991399"   "6011905"   "6014702"   "6032150"   "6275939"   "6298446"   "6304969"   "6353892").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 13:56
S13 3	10	S132 and (least near significant near2 bit)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:46
S13 4	69	("4405829" "4827508" "4977594"  "5012232" "5050213" "5303370"  "5410598" "5509070" "5533124"  "5570306" "5636292" "5638513"  "5642207" "5710834" "5715403"  "5721788" "5745254" "5745360"  "5745604" "5748763" "5748783"  "5758068" "5761914" "5764770"  "5765152" "5768426" "5801679"  "5801689" "5809160" "5822436"  "5832119" "5835722" "5838902"  "5841886" "5841978" "5850481"  "5862260" "5870544" "5872915"  "5875249" "5881287" "5892900"  "5893101" "5905505" "5920848"  "5968119" "5974441" "5982931"  "5991399" "5999941" "6009410"  "6011905" "6014702" "6032150"  "6088355" "6205480" "6212329"  "6236387" "6240450" "6260141"  "6275599" "6282362" "6343274"  "6343738" "6463467" "6557103"  "6601106" "6668246" "6877005" ).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:47

## EAST Search History

S13 5	41	S134 and bit	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:47
S13 6	29	S134 and bit and pixel	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 19:28
S13 7	3130	(least lower) near3 bit same (pixel image) same (ram display\$3 video )	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 19:30
S13 8	1145	(least lower) near3 bit with (pixel image) with (ram display\$3 video )	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 19:30
S13 9	624	(least lower) near3 bit with (pixel) with (ram display\$3 video )	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 19:30
S14 0	69	(least lower) near3 bit with (pixel) with (ram display\$3 video ) and (copyright protection)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 19:31
S14 1	97	(least lower) near3 bit with (pixel) with (ram display\$3 video ) and (copyright protect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 19:40
S14 2	126	(least lower) near3 bit with (pixel) with (ram display\$3 video ) and (copyright protect\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 19:41
S14 3	29	S142 not S141	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 19:59
S14 4	10	"5870499"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/22 19:59

The recent database difficulties have been resolved. Please let us know if you encounter any data corruptions.

**Hardware Implementation Perspectives of Digital Video Watermarking Algorithms (2003)** (Make Corrections) (9 citations)  
Nebu John Mathai, Deepa Kundur, Ali Sheikholeslami

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**Abstract:** We consider hardware implementation aspects of the digital watermarking problem through the implementation of a well-known video watermarking algorithm called Just Another Watermarking System (JAWS); we discuss the time and area constraints that must be satisfied by a successful hardware implementation. A hardware architecture that implements the algorithm under the constraints is then proposed. The architecture is analyzed to gain an understanding of the relationships between algorithmic... [\(Update\)](#)

**Cited by:** [More](#)

IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II: EXPRESS.. - Watermarking In Dct (2006) [\(Correct\)](#)  
An Image-in-Image communication scheme and - Vlsi Implementation Using (2004) [\(Correct\)](#)  
FPGA Based Implementation of an Invisible-Robust Image.. - Mohanty, C., Nayak (2004) [\(Correct\)](#)

**Active bibliography (related documents):** [More](#) [All](#)

1.5: Communication and Information Theory in Watermarking: A Survey - Sequeira, Kundur [\(Correct\)](#)  
0.6: Digital Watermarking: A Tutorial Review - Mohanty (1999) [\(Correct\)](#)  
0.5: Analysis of Watermark Detection Using SPOMF - Kalker, Janssen (1999) [\(Correct\)](#)

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7: VLSI Impementation of Online Digital Watermarking Techniques With Difference Enc.. (context) - Garimella, Satyanarayan et al. - 2003  
7: Implementation of a Real-Time Digital Watermarking Process for Broadcast Monitor.. (context) - Strycker, Termont et al. - 2000  
7: A System Level Design for Embedded Watermark Technique using DSC System (context) - Tsai, Lu - 2001

**BibTeX entry:** [\(Update\)](#)

N. J. Mathai, D. Kundur, and A. Sheikholeslami, "Hardware Implementation Perspectives of Digital Video Watermarking Algorithms," IEEE Transanctions on Signal Processing, 2003. 269 <http://citeseer.ist.psu.edu/mathai03hardware.html> [More](#)

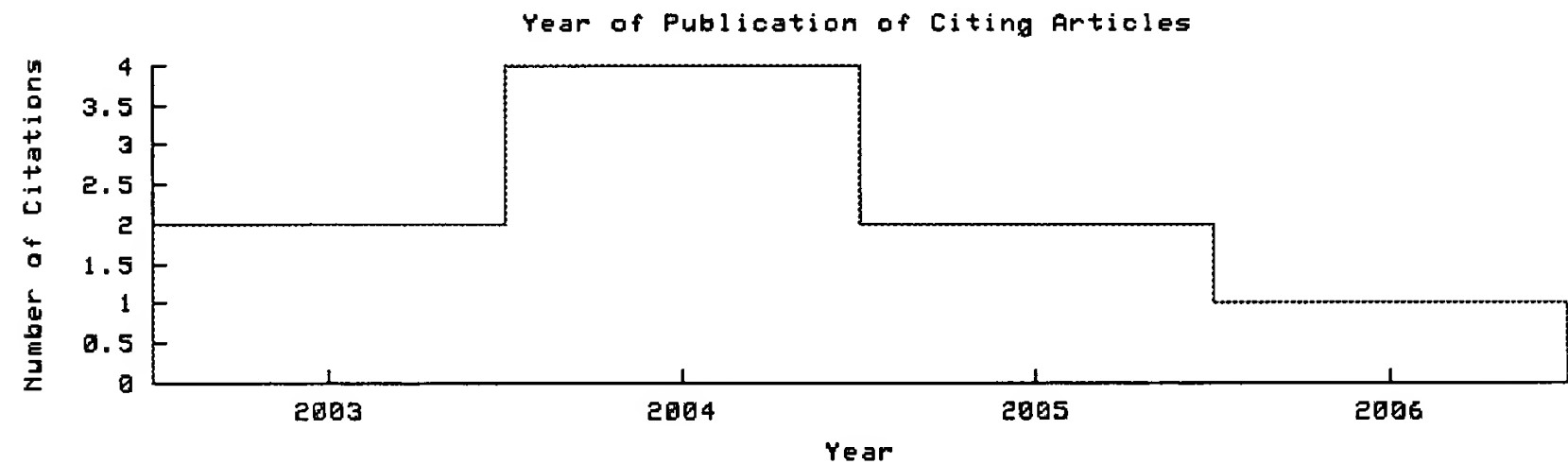
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@misc{ mathai03hardware,
  author = "N. Mathai and D. Kundur and A. Sheikholeslami",
  title = "Hardware Implementation Perspectives of Digital Video Watermarking Algortithms",
  text = "N. J. Mathai, D. Kundur, and A. Sheikholeslami, Hardware Implementation Perspectives of Digital Video Watermarking Algortithms, IEEE Transanctions on Signal Processing, 2003. 269",
  year = "2003",
  url = "citeseer.ist.psu.edu/mathai03hardware.html" }
```

**Citations (may not include all citations):**

63 Information Hiding Techniques for Steganography and Digital .. (context) - Katzenbeisser, Petitcolas - 2000 [ACM](#)  
55 Perceptual watermarks for digital images and video - Wolfgang, Podilchuk et al. - 1999  
49 Digital Watermarking (context) - Cox, Bloom et al. - 2001 [ACM](#) [DBLP](#)  
23 A video watermarking system for broadcast monitoring (context) - Kalker, Depovere et al. - 1999  
23 Rotation, scale and translation invariant digital image wate.. - Ruanaidh, Pun - 1997  
17 Improved watermark detection reliability using filtering bef.. (context) - Depovere, Kalker et al. - 1998 [DBLP](#)  
15 Joint wavelet compression and authentication watermarking - Xie, Arce - 1998 [DBLP](#)



12 Information Hiding: Steganography and Watermarking—Attacks.. (context) - Johnson, Duric et al. - 2001  
8 The effect of matching watermark and compression transforms .. - Wolfgang, Podilchuk et al. - 1998  
7 Theoretical capacity measures for data hiding in compressed .. - Ramkumar, Akansu - 1998  
6 Optimal adaptive diversity watermarking with channel state e.. (context) - Voloshynovskiy, Deguillaume et al. - 2001  
5 Disappearing Cryptography: Being and Nothingness on the Net (context) - Wayner - 1996  
3 Transform-based hybrid data hiding for improved robustness i.. (context) - Fei, Kundur et al. - 2001  
3 Diversity and attack characterization for improved robust wa.. (context) - Kundur, Hatzinakos - 2001  
3 Transform-based hybrid data hiding for improved robustness i.. (context) - Fei, Kundur et al. - 2001  
3 Diversity and attack characterization for improved robust wa.. (context) - Kundur, Hatzinakos - 2001  
2 Exploiting shift invariance to obtain a high payload in digi.. (context) - Maes, Kalker et al. - 1999 [DBLP](#)  
2 Low cost watermarking based on a human visual model - Delaigle, De Vleeschouwer et al. - 1997  
2 Mask building for perceptually hiding frequency embedded wat.. - Bartolini, Barni et al. - 1998 [DBLP](#)  
1 Analyzes of error correction strategies for typical communic.. (context) - Baudry, Delaigle et al. - 2001  
1 Implementation of a real-time digial watermarking process fo.. (context) - De Strycker, Termont et al. - 2000  
1 System aspects of copy management for digital video - Linnartz, Talstra et al. - 2000 [DBLP](#)



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**Documents on the same site ([http://www.eecg.toronto.edu/~ali/paper\\_patent.html](http://www.eecg.toronto.edu/~ali/paper_patent.html)):**

- A Ternary Content-Addressable Memory (TCAM) Based on 4T .. - And Including.. (2003) [\(Correct\)](#)  
A Current-Based Reference-Generation Scheme for.. - Siu, Eslami.. (2003) [\(Correct\)](#)

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